BSC 307 Concrete Lesson Plan Form

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| Title: Rope Neuron | Grade Level:  9 |
| Objectives:  TSWBAT define key terms associated with the parts of the neuron.  TSWBAT label a diagram of a neuron using a word bank that is provided.  TSWBAT construct a model of a neuron. | |
| Illinois State Learning Standards:  Stage I: 12A: 1 | |
| Activity Description:  Students will be given a brief description of neurons and neural transmission. This will include the different parts of a neuron and how neurons communicate with one another. A model will be used to show how signals are sent from one neuron to another. This will be done be having the students participating by holding different parts of a neuron constructed out of ropes and other items. The students will then identify key parts of the neuron and label them on a diagram. A homework assignment will be given that will have the student construct their own neuron with materials at home. The students will then discuss their neuron to the class. They will talk about the different parts of the neuron and discuss how it works. | |
| Assessment Strategies:  Students will show understanding by defining key terms and labeling the part of a neuron on worksheets. Students will then construct their own neuron at home with different materials. By constructing a neuron at home, the students will gain a better understanding about the different parts of the neuron and their functions. A quiz will follow at a later date to see if the students have retained the information. | |
| Rationale:  Because neuron transmission of signals is such an abstract concept, a model is used to help the students visualize the steps of how neurons are used to transport information from different parts of the body to the brain. This exercise will allow the students to become more familiar with the parts of the neuron and some of the key terms associated with them. This exercise also directly reflects ILS Stage I: 12A: 1 as it shows the process of how neurons communicate and nervous control. | |
| Resources:  Chudler, E.H. Neuroscience For Kids. [Online]. Retrieved January 25, 2011. Available: <http://faculty.washington.edu/chudler/neurok.html>  Illinois State Board of Education. (1997). Illinois State Learning Standards. [On- line]. Retrieved on January 25, 2011. Available: <http://www.isbe.net/ils/Default.htm>.  The Brain: Classroom Activities and Brain Links. [Online]. Retrieved January 25, 2011. Available: <http://www.enchantedlearning.com/subjects/anatomy/brain/Classroom.shtml> | |